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<120> 47 Human Secreted Proteins

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<140> Unassigned

<141> 2000-06-09

<150> PCT/US99/29950

<151> 1999-12-16

<150> 60/113,006

<151> 1998-12-18

<150> 60/112,809

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<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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<211> 1381

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens
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<213> Homo sapiens

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 <222> (1105)
 <223> n equals a,t,g, or c

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<210> 51

<211> 3337

<212> DNA

<213> Homo sapiens

<400> 51

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 aatgatgcca tgacttggac aaaatgccc tgcctctgg gtctgcttt cttcaccag 240
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 gaagtgtttt gaacaagggg catgactgtg actctctctg cttttgcaag cttcaggaaa 840
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<210> 53
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (678)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (681)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (709)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (732)
<223> n equals a,t,g, or c

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<400> 53							
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atctctcatc	catctcagcc	actattctcc	tccccctcct	tgtgtctaca	acaccccat		240
ttaccaagtc	tcccatttaa	cctccccatc	cttttctttc	ccttaaagtc	tcatatgata		300
ctcgagtcct	catttgtctt	cccaaaaaaa	aaaaagaatt	tttttttttt	taaggaatcc		360
ttccttgact	cctaaagact	cctaaggatg	ctgaggccct	ctcagcatga	tttccatata		420


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cttacttttct ctgttggact gcagacaact tgaaagcagg aacttttgca gtgtttcccc 480
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caaaaaaaaaa aaaaaaaaaaac tcgagagtac ttctagagcg gccgcggggc atcgatttcc 600
acccgggtgg ggtaccaggt aagtgtaccc aattcgccct atagtgagtc gtattacaat 660
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gccttggagg anat 734

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<210> 54
<211> 1182
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (1119)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (1128)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1131)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1147)
<223> n equals a,t,g, or c

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<400> 54
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atcatgttaa tagatgttta agaataatgg aactggagct gtactgagcc aaggatggaa 180
atgaagacat gtgagactat tttttcttca tccaccgata ctcttcagtt acaaggattt 240
aatttaaaag ggttttaatt aaatggaatc cagaagcttt ggacgctcca gtttttcttc 300
ttagagacaa accctagctc agtttcctgg agcttgactc agaatgcagc atggtactcc 360
ggactgacag tgtgccagct ttattcactt atctctctac cttttggett gcatttattt 420
cagggctggc tgacattttg accttatgta caaagatggc cgatacgatt atttttcate 480
atatattaca gaaaatacta ctcttgaaaa atactctgag aaatatgttc tatggtcaga 540
taagtttggg aaacagttaa ttattgttcc tcctttgcag aatcacatg cactgttagc 600
taattaaaga ctctcagatg tcccactgga aagaatcatg tttagctttg tttaacctag 660
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gattttncac ccgggtgggg taccaggtaa gtggacccaa tt 1182

```

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<210> 55
<211> 1866
<212> DNA
<213> Homo sapiens

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T02070 "0052660"

```

<210> 56
<211> 1028
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1022)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1026)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1027)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1028)
<223> n equals a,t,g, or c

<400> 56

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 acccagagtt ggggaacatt ggctgcaagg ttgttcctga ttgtaacaac tacagacaga 360
 agatcacctc ctggatggag ccgatagtca agttcccggt ggccgtggac ggcgcaacct 420
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 aaactcgagg ctcttggaat atggacagat ttctgaaccg tttccacctg ggcgaacctg 720
 aagcaagcac ccagttcatg acccagaact accaggactc accaaccctc caggctccca 780
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 ccggctttgc catccgggca tgtggccaca ctgcyacca ccgacgatgt gggtagtgaa 900
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 anaaannnn 1028

<210> 57
 <211> 1854
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1844)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1853)
 <223> n equals a,t,g, or c

<400> 57
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 aggcacacct cctctctctg gmcctccttg gcctgaccca ttctgtgggg aaaccgggtg 180
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05895293.070201

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<210> 58
<211> 1349
<212> DNA
<213> Homo sapiens

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<400> 58
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attcctcaaa cctaaaaatca acagctttta tgcctttgaa gtgaaggatg caaaagggaag 180
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1349

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<210> 59
<211> 1072
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (374)
<223> n equals a,t,g, or c

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<400> 59
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09895200 07001

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<210> 60

<211> 2508

<212> DNA

<213> Homo sapiens

<400> 60

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cccacctcgt	ttccgcagcc	cctgcgtgct	gctccagagg	tgggtgggag	gtgagctggg	1800
ggctccttgg	gcccctcatg	gtcatggtct	cgtcccattc	cacaccattt	gtttctctgt	1860
ctccccatcc	tactccaagg	atgccggcat	caccctgagg	gctccccctt	gggaatgggg	1920
tagtgaggcc	ccagacttca	ccccagccc	actgctaaaa	tctgttttct	gacagatggg	1980
ttttggggag	tcgcctgctg	cactacatga	gaaagggact	cccatttgcc	cttccccctt	2040
tcctacagtc	ccttttgtct	tgtctgtcct	ggctgtctgt	gtgtgtgcca	ttctctggac	2100
ttcagagccc	cctgagccag	tcctcccttc	ccagcctccc	tttgggcctc	cctaactcca	2160
cctaggctgc	cagggaacgg	agtcagctgg	ttcaaggcca	tcgggagctc	tgccctcaag	2220
tctacccctc	ccttcccggg	ctccctcctg	tccctcctt	tcctccctcc	ttccttccac	2280
tctccttctt	tttgcctccc	tgccttctcc	ccctcctcag	gttcttccct	ccttctcact	2340
ggtttttcca	ccttccctct	tccctctctc	cctggctcct	aggctgtgat	atatattttt	2400
gtattatctc	tttcttcttc	ttgtgggtgat	catcttgaat	tactgtggga	tgtaatgttc	2460

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2508

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<210> 61
<211> 952
<212> DNA
<213> Homo sapiens
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<210> 62
<211> 206
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 62
Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp
  1              5              10              15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
      20              25              30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser
      35              40              45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro
      50              55              60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala
      65              70              75              80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg
      85              90              95

Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His
      100             105             110

Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp
      115             120             125

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Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln
130 135 140

Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val
145 150 155 160

Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu
165 170 175

Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg
180 185 190

Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly
195 200 205

<210> 63

<211> 108

<212> PRT

<213> Homo sapiens

<400> 63

Met Thr Trp Trp Tyr Arg Trp Leu Cys Arg Leu Ser Gly Val Leu Gly
1 5 10 15

Ala Val Ser Cys Ala Ile Ser Gly Leu Phe Asn Cys Ile Thr Ile His
20 25 30

Pro Leu Asn Ile Ala Ala Gly Val Trp Met Met Met Ala Val Val Pro
35 40 45

Ile Val Ile Ser Leu Thr Leu Thr Thr Leu Leu Gly Asn Ala Ile Ala
50 55 60

Phe Ala Thr Gly Val Leu Tyr Gly Leu Ser Ala Leu Gly Lys Lys Gly
65 70 75 80

Asp Ala Ile Ser Tyr Ala Arg Ile Gln Gln Gln Arg Gln Gln Ala Asp
85 90 95

Glu Glu Lys Leu Ala Glu Thr Leu Glu Gly Glu Leu
100 105

<210> 64

<211> 286

<212> PRT

<213> Homo sapiens

<400> 64

Met Ala Arg Phe Gly Leu Pro Ala Leu Leu Cys Thr Leu Ala Val Leu
1 5 10 15

Ser Ala Ala Leu Leu Ala Ala Glu Leu Lys Ser Lys Ser Cys Ser Glu
20 25 30

Val Arg Arg Leu Tyr Val Ser Lys Gly Phe Asn Lys Asn Asp Ala Pro
35 40 45

Leu His Glu Ile Asn Gly Asp His Leu Lys Ile Cys Pro Gln Gly Ser

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50 55 60
 Thr Cys Cys Ser Gln Glu Met Glu Glu Lys Tyr Ser Leu Gln Ser Lys
 65 70 75 80
 Asp Asp Phe Lys Ser Val Val Ser Glu Gln Cys Asn His Leu Gln Ala
 85 90 95
 Val Phe Ala Ser Arg Tyr Lys Lys Ser Asp Glu Phe Phe Lys Glu Leu
 100 105 110
 Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Lys Thr Tyr
 115 120 125
 Gly His Leu Tyr Met Gln Asn Phe Glu Leu Phe Lys Asp Leu Phe Val
 130 135 140
 Glu Leu Lys Arg Tyr Tyr Val Val Gly Asn Val Asn Leu Glu Glu Met
 145 150 155 160
 Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Arg Leu Val
 165 170 175
 Asn Ser Gln Tyr His Phe Thr Asp Glu Tyr Leu Glu Cys Val Ser Lys
 180 185 190
 Tyr Thr Glu Gln Leu Lys Pro Phe Gly Asp Val Pro Arg Lys Leu Lys
 195 200 205
 Leu Gln Val Thr Arg Ala Phe Val Ala Ala Arg Thr Phe Ala Gln Gly
 210 215 220
 Leu Ala Val Ala Gly Asp Val Arg Glu Gln Gly Leu Arg Gly Lys Pro
 225 230 235 240
 His Ser Pro Val Tyr Pro Cys Pro Val Glu Asp Asp Leu Leu Leu Pro
 245 250 255
 Leu Pro Gly Ser Arg Asp Cys Glu Ala Met Leu Gln Leu Leu Lys
 260 265 270
 His His Glu Arg Leu Phe Gly Gln Pro Arg Gly Ser Arg Phe
 275 280 285

<210> 65

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65

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Leu Gly Gly Arg Thr Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr

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<210> 67
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 67
 Met Ala Ala Trp Val Phe Pro Leu Leu Ser Val Ile His Thr Xaa Leu
 1 5 10 15
 Pro Gln Ala Ser Pro Glu Ile Trp Val Thr Gln Ser Glu Gly Gly Asp
 20 25 30
 Gln Gly Val Ala Cys Glu Xaa Val Gly Gly Val Leu Ser Thr Leu Asp
 35 40 45
 Arg Ile Glu Leu Cys Phe Leu Ser Asp Arg Ala Ser Ser Gly Cys Xaa
 50 55 60
 Asp Lys Xaa Pro Gln Thr Gly Val Leu Phe Leu Gly Ala Gly Ile Cys
 65 70 75 80
 His Glu Gly Val Gly Arg Ala Gly Ser Ser Arg Ala Leu Ser Pro Gly
 85 90 95
 Pro Ala Xaa Ala Val Phe Pro Ser Phe Pro Cys Ala Phe Pro Gly Pro
 100 105 110
 Ser Cys Val Cys Leu Cys Pro Arg Leu Ser Trp Xaa Xaa Tyr Arg Ser
 115 120 125
 Gln Gly Pro Trp Ser Tyr Trp Ile Arg Ala Thr Leu Met Ala Ser Cys
 130 135 140
 His Cys Ser Tyr Leu
 145

<210> 68
 <211> 357
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 68
 Met Cys Phe Ala Thr Ala Ala Phe Phe Phe Phe Thr Leu Leu Met
 1 5 10 15
 Leu Cys Val Ser Ser Ser Arg Asp Pro Arg Ala Ala Ile Gln Asn Gly
 20 25 30
 Phe Trp Phe Phe Lys Phe Leu Ile Leu Val Gly Xaa Thr Val Gly Ala
 35 40 45
 Phe Tyr Ile Pro Asp Gly Ser Phe Thr Asn Ile Trp Phe Tyr Phe Gly
 50 55 60

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Val Val Gly Ser Phe Leu Phe Ile Leu Ile Gln Leu Val Leu Leu Ile
 65 70 75 80
 Asp Phe Ala His Ser Trp Asn Gln Arg Trp Leu Gly Lys Ala Glu Glu
 85 90 95
 Cys Asp Ser Arg Ala Trp Tyr Ala Gly Leu Phe Phe Phe Thr Leu Leu
 100 105 110
 Phe Tyr Leu Leu Ser Ile Ala Ala Val Ala Leu Met Phe Met Tyr Tyr
 115 120 125
 Thr Glu Pro Ser Gly Cys His Glu Gly Lys Val Phe Ile Ser Leu Asn
 130 135 140
 Leu Thr Phe Cys Val Cys Val Ser Ile Ala Ala Val Leu Pro Lys Val
 145 150 155 160
 Gln Asp Ala Gln Pro Asn Ser Gly Leu Leu Gln Ala Ser Val Ile Thr
 165 170 175
 Leu Tyr Thr Met Phe Val Thr Trp Ser Ala Leu Ser Ser Ile Pro Glu
 180 185 190
 Gln Lys Cys Asn Pro His Leu Pro Thr Gln Leu Gly Asn Glu Thr Val
 195 200 205
 Val Ala Gly Pro Glu Gly Tyr Glu Thr Gln Trp Trp Asp Ala Pro Ser
 210 215 220
 Ile Val Gly Leu Ile Ile Phe Leu Leu Cys Thr Leu Phe Ile Ser Leu
 225 230 235 240
 Arg Ser Ser Asp His Arg Gln Val Asn Ser Leu Met Gln Thr Glu Glu
 245 250 255
 Cys Pro Pro Met Leu Asp Ala Thr Gln Gln Gln Gln Gln Val Ala
 260 265 270
 Ala Cys Glu Gly Arg Ala Phe Asp Asn Glu Gln Asp Gly Val Thr Tyr
 275 280 285
 Ser Tyr Ser Phe Phe His Phe Cys Leu Val Leu Ala Ser Leu His Val
 290 295 300
 Met Met Thr Leu Thr Asn Trp Tyr Lys Pro Gly Glu Thr Arg Lys Met
 305 310 315 320
 Ile Ser Thr Trp Thr Ala Val Trp Val Lys Ile Cys Ala Ser Trp Ala
 325 330 335
 Gly Leu Leu Leu Tyr Leu Trp Thr Leu Val Ala Pro Leu Leu Leu Arg
 340 345 350
 Asn Arg Asp Phe Ser
 355

<210> 69
 <211> 111
 <212> PRT

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<213> Homo sapiens

<400> 69

Met Gly Pro Ser Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln
 1 5 10 15
 Leu Ile Asn Leu Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp
 20 25 30
 Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
 35 40 45
 Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
 50 55 60
 Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
 65 70 75 80
 Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
 85 90 95
 Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
 100 105 110

<210> 70

<211> 183

<212> PRT

<213> Homo sapiens

<400> 70

Met Ile Cys Ser Gly Phe Phe Gly Trp Trp Trp Trp Cys Phe Leu
 1 5 10 15
 Met Gly Leu Ser Gly Phe His Gln Thr His Phe Pro Ala Ala Val Trp
 20 25 30
 Ser Gly Pro Glu Asn Thr Lys Pro Pro Asp Pro Arg Pro Thr Pro Thr
 35 40 45
 His His Pro Ala Ser Ala Ala Leu Ser Gln Asp Ser His Gly Asn Glu
 50 55 60
 Gly Ile His Leu Leu Pro Asp Thr His Trp Ala Leu Arg Pro Ser Gln
 65 70 75 80
 Gly Pro His Asn Gly Pro Gln Arg Arg Gly Pro Thr Thr Cys Trp Ile
 85 90 95
 Phe Pro Gly Lys Gly Val Arg Gly Trp Arg Gly Arg Ala Val Arg Leu
 100 105 110
 Phe Pro Ala Pro Ser Pro Ile Cys Thr Leu Val Ala Arg Val Ser Gln
 115 120 125
 Arg Gly His Pro Cys Pro Arg Thr Leu Ser Pro Ser Ser Ala Pro Cys
 130 135 140
 Phe Leu Ile Leu Lys Leu Gln Gly Gly Trp Glu Asp Ser Asn Gly Asn
 145 150 155 160

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<400> 71
Met Ile Val Gly Ser Pro Arg Ala Leu Thr Gln Pro Leu Gly Leu Leu
  1             5             10             15

Arg Leu Leu Gln Leu Val Ser Thr Cys Val Ala Phe Ser Leu Val Ala
      20             25             30

Ser Val Gly Ala Trp Thr Gly Ser Met Gly Asn Trp Ser Met Phe Thr
      35             40             45

Trp Cys Phe Cys Phe Ser Val Thr Leu Ile Ile Leu Ile Val Glu Leu
      50             55             60

Cys Gly Leu Gln Ala Arg Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile
      65             70             75             80

Thr Phe Ala Cys Tyr Ala Ala Leu Phe Cys Leu Ser Ala Ser Ile Ile
      85             90             95

Tyr Pro Thr Thr Tyr Val Gln Phe Leu Ser His Gly Arg Ser Arg Asp
      100             105             110

His Ala Ile Ala Ala Thr Phe Phe Ser Cys Ile Ala Cys Val Ala Tyr
      115             120             125

Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile Thr Gly
      130             135             140

Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val Leu Glu Thr Phe Val
      145             150             155             160

Ala Cys Ile Ile Phe Ala Phe Ile Ser Asp Pro Asn Leu Tyr Gln His
      165             170             175

Gln Pro Ala Leu Glu Trp Cys Val Ala Val Tyr Ala Ile Cys Phe Ile
      180             185             190

Leu Ala Ala Ile Ala Ile Leu Leu Asn Leu Gly Glu Cys Thr Asn Val
      195             200             205

Leu Pro Ile Pro Phe Pro Ser Phe Leu Ser Gly Leu Ala Leu Leu Ser
      210             215             220

Val Leu Leu Tyr Ala Thr Ala Leu Val Leu Trp Pro Leu Tyr Gln Phe
      225             230             235             240

Asp Glu Lys Tyr Gly Gly Ser Leu Gly Ala Arg Glu Met
      245             250

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<210> 72
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 72
 Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe
 1 5 10 15
 Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser
 20 25 30
 Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His
 35 40 45
 Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala
 50 55 60
 Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val
 65 70 75 80
 Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr
 85 90 95
 Glu Ala Leu

<210> 73
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 73
 Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln
 1 5 10 15
 Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp
 20 25 30
 Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys
 35 40 45
 Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly
 50 55 60
 Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg
 65 70 75 80
 Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr
 85 90 95
 Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys
 100 105 110
 Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys
 115 120 125
 Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu
 130 135 140

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Leu Asp Leu Gln Gln Asn Asn Leu Asp Asp Val Gly Val Arg Leu Leu
145 150 155 160

Cys Glu Gly Leu Ser Ile Leu Pro Ala Asn Ser Tyr Ala Trp Gly Trp
165 170 175

Thr Arg Gln Leu
180

<210> 74

<211> 62

<212> PRT

<213> Homo sapiens

<400> 74

Met Leu Leu Arg His Pro Leu Pro Val Cys Phe Cys Phe Ser Phe Cys
1 5 10 15

Pro Phe Pro Val Ser Ala Leu Ser Leu Leu Pro Ile Gly Leu Val Arg
20 25 30

Glu Gly Ala Ala Ser Pro Thr Gln Gln Leu Arg Leu Gln Arg Glu Ser
35 40 45

Leu Ser Ser Ile Thr His Arg Val Asn Ile Lys Glu Gly His
50 55 60

<210> 75

<211> 73

<212> PRT

<213> Homo sapiens

<400> 75

Met Ala Thr Pro Arg Gly Leu Gly Ala Leu Leu Leu Leu Leu Leu
1 5 10 15

Pro Thr Ser Gly Gln Glu Lys Pro Thr Glu Gly Pro Arg Asn Thr Cys
20 25 30

Leu Gly Ser Asn Asn Met Tyr Asp Ile Phe Asn Leu Asn Asp Lys Ala
35 40 45

Leu Cys Phe Thr Lys Cys Arg Gln Ser Gly Ser Asp Ser Cys Asn Val
50 55 60

Glu Asn Leu Gln Arg Phe Arg Gly Arg
65 70

<210> 76

<211> 130

<212> PRT

<213> Homo sapiens

<400> 76

Met Ala Phe Phe Phe Thr Phe Met Ala Gln Leu Val Ile Ser Ile Ile
1 5 10 15

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Gln Ala Val Gly Ile Pro Gly Trp Gly Val Cys Gly Trp Ile Ala Thr
20 25 30

Ile Ser Phe Phe Gly Thr Asn Ile Gly Ser Ala Val Val Met Leu Ile
35 40 45

Pro Thr Val Met Phe Thr Val Met Ala Val Phe Ser Phe Ile Ala Leu
50 55 60

Ser Met Val His Lys Phe Tyr Arg Gly Ser Gly Gly Ser Phe Ser Lys
65 70 75 80

Ala Gln Glu Glu Trp Thr Thr Gly Ala Trp Lys Asn Pro His Val Gln
85 90 95

Gln Ala Ala Gln Asn Ala Ala Met Gly Ala Ala Gln Gly Ala Met Asn
100 105 110

Gln Pro Gln Thr Gln Tyr Ser Ala Thr Pro Asn Tyr Thr Tyr Ser Asn
115 120 125

Glu Met
130

<210> 77

<211> 107

<212> PRT

<213> Homo sapiens

<400> 77

Met Glu Pro Leu Ala Ala Tyr Pro Leu Lys Cys Ser Gly Pro Arg Ala
1 5 10 15

Lys Val Phe Ala Val Leu Leu Ser Ile Val Leu Cys Thr Val Thr Leu
20 25 30

Phe Leu Leu Gln Leu Lys Phe Leu Lys Pro Lys Ile Asn Ser Phe Tyr
35 40 45

Ala Phe Glu Val Lys Asp Ala Lys Gly Arg Thr Val Ser Leu Glu Lys
50 55 60

Tyr Lys Gly Lys Val Ser Leu Val Val Asn Val Ala Ser Asp Cys Gln
65 70 75 80

Leu Thr Asp Arg Asn Tyr Leu Gly Leu Lys Glu Leu His Lys Glu Phe
85 90 95

Gly Pro Ser His Phe Ser Val Leu Ala Phe Pro
100 105

<210> 78

<211> 125

<212> PRT

<213> Homo sapiens

<400> 78

Met Gln Ile Leu Gly Val Val Leu Thr Leu Leu Gly Trp Val Asn Gly
1 5 10 15

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Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val Thr Ala Phe Ile Gly
20 25 30

Asn Ser Ile Val Val Ala Gln Val Val Trp Glu Gly Leu Trp Met Ser
35 40 45

Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
50 55 60

Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Cys Val
65 70 75 80

Ile Ala Leu Leu Val Ala Leu Phe Gly Leu Leu Val Tyr Leu Ala Gly
85 90 95

Ala Lys Cys Thr Thr Cys Phe Tyr Ile Arg Ile Pro Arg Pro Ala Trp
100 105 110

Cys Ser Pro Leu Gly Leu Ser Leu Ser Ser Gln Gly Ser
115 120 125

<210> 79

<211> 218

<212> PRT

<213> Homo sapiens

<400> 79

Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
1 5 10 15

Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Gly Ser
20 25 30

Ser Ser Pro Pro Arg Thr Pro Pro Pro Pro Ala Arg Pro Pro Cys Ala
35 40 45

Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
50 55 60

Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val
65 70 75 80

Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
85 90 95

Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
100 105 110

Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
115 120 125

Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
130 135 140

Ser Asp Ser Met Arg Gly Asp Gly Met Gly Leu Ser Leu Glu Arg His
145 150 155 160

Leu Pro Pro Cys Gly His Ser Cys Ser Gly Ala Val Gly Lys Val Trp
165 170 175

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Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
65 70 75 80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
 85 90 95
 Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
 100 105 110
 Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
 115 120 125
 Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
 130 135 140
 Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
 145 150 155 160
 Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
 165 170 175
 Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
 180 185 190
 Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
 195 200 205
 Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
 210 215 220
 Ser Ile Glu Trp Lys Ile Asn Ile
 225 230

 <210> 81
 <211> 121
 <212> PRT
 <213> Homo sapiens

 <400> 81
 Met Val Phe Phe Thr Cys Leu Trp Phe Leu Asn Glu His Ile Leu Val
 1 5 10 15
 Cys Asn Cys Ser Asn Val Ser Leu Cys Tyr Ser Leu Pro Leu Lys Glu
 20 25 30
 Lys Ile Thr Phe Phe Tyr Asn Leu Thr His Tyr Phe Phe Asn Arg Cys
 35 40 45
 Phe Lys His Leu Phe Val Phe Val Glu Gln Ile Phe Leu Asn Ile Val
 50 55 60
 Tyr Thr Arg Asn Leu Ile Val Tyr Phe Ser Glu Leu Asn Tyr Ala Ile
 65 70 75 80
 Cys Ser Ser Val Asn Glu Ala Leu Thr Val Gln Ser Asn Pro Leu Lys
 85 90 95
 Val Leu Pro Trp Glu Ile Arg Arg Val Ser Asn Ser Gln Cys Leu Ser
 100 105 110
 Leu Ile Ser Val Pro Tyr Asn Asn Thr
 115 120

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<400> 82
Met Asn Pro Gln Thr Val Leu Leu Leu Arg Val Ile Ala Ala Phe Cys
  1                      5                      10                      15

Phe Leu Gly Ile Leu Cys Ser Leu Ser Ala Phe Leu Leu Asp Val Phe
      20                      25                      30

Gly Pro Lys His Pro Ala Leu Lys Ile Thr Arg Arg Tyr Ala Phe Ala
      35                      40                      45

His Ile Leu Thr Val Leu Gln Cys Ala Thr Val Ile Gly Phe Ser Tyr
      50                      55                      60

Trp Ala Ser Glu Leu Ile Leu Ala Gln Gln Gln Gln His Lys Lys Tyr
      65                      70                      75                      80

His Gly Ser Gln Val Tyr Val Thr Phe Ala Val Ser Phe Tyr Leu Val
      85                      90                      95

Ala Gly Ala Gly Gly Ala Ser Ile Leu Ala Thr Ala Ala Asn Leu Leu
      100                      105                      110

Arg His Tyr Pro Thr Glu Glu Glu Gln Ala Leu Glu Leu Leu Ser
      115                      120                      125

Glu Met Glu Glu Asn Glu Pro Tyr Pro Ala Glu Tyr Glu Val Ile Asn
      130                      135                      140

Gln Phe Gln Pro Pro Pro Ala Tyr Thr Pro
      145                      150

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<400> 83
Met Met Asn Phe Gln Pro Pro Ser Lys Ala Trp Arg Ala Ser Gln Met
  1                      5                      10                      15

Met Thr Phe Phe Ile Phe Leu Leu Phe Phe Pro Ser Phe Thr Gly Val
      20                      25                      30

Leu Cys Thr Leu Ala Ile Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp
    35                      40                      45

Cys Gly Pro Phe Arg Gly Leu Pro Leu Phe Ile His Ser Ile Tyr Ser
    50                      55                      60

Trp Ile Asp Thr Leu Ser Thr Arg Pro Gly Tyr Leu Trp Val Val Trp
    65                      70                      75                      80

Ile Tyr Arg Asn Leu Ile Gly Ser Val His Phe Phe Phe Ile Leu Thr

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85 90 95
 Leu Ile Val Leu Ile Ile Thr Tyr Leu Tyr Trp Gln Ile Thr Glu Gly
 100 105 110
 Arg Lys Ile Met Ile Arg Leu Leu His Glu Gln Ile Ile Asn Glu Gly
 115 120 125
 Lys Asp Lys Met Phe Leu Ile Glu Lys Leu Ile Lys Leu Gln Asp Met
 130 135 140
 Glu Lys Lys Ala Asn Pro Ser Ser Leu Val Leu Glu Arg Arg Glu Val
 145 150 155 160
 Glu Gln Gln Gly Phe Leu His Leu Gly Glu His Asp Gly Ser Leu Asp
 165 170 175
 Leu Arg Ser Arg Arg Ser Val Gln Glu Gly Asn Pro Arg Ala
 180 185 190

<210> 84
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met His Ile Tyr Met Trp Val Cys Gly Met Cys Ala Cys Val Cys Met
 1 5 10 15
 Ala Ser Tyr Ile Ile Cys Gly Thr Lys Gly Lys Met Lys Leu Tyr Gly
 20 25 30
 Pro Arg Ser Lys Ile Arg Cys Gly Val Leu Leu Ser Thr Val Leu Cys
 35 40 45
 Asn Cys Thr Gly Cys Met Ser Met Lys Pro Ser Cys Val Cys Ala His
 50 55 60
 Met Cys Met Asn Met Tyr Phe Ile
 65 70

<210> 85
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 85
 Met Gly Leu Pro Arg Gly Ser Phe Phe Trp Leu Leu Leu Leu Thr
 1 5 10 15
 Ala Ala Cys Ser Gly Leu Leu Phe Ala Leu Tyr Phe Ser Ala Val Gln
 20 25 30
 Arg Tyr Pro Gly Pro Ala Ala Gly Ala Arg
 35 40

<210> 86
 <211> 74

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<213> Homo sapiens

Met Ala Cys Leu Gly Ala Pro Ile Ser Ser Leu Leu Cys Trp Leu Leu
1 5 10 15

Leu Ala Leu Ile Ala Leu Glu Ile Val Pro Pro Ala Ala Pro Cys Glu
20 25 30

Val Leu Thr Pro Leu Gln Ser Ser Thr Asn Pro Ile Val Asn Lys Leu
35 40 45

Gly Val Lys Asp Val Asn Glu Leu Val Thr Pro Met Gln Gly Ile Gln
50 55 60

Thr Cys Phe Asn Ile Lys Lys Lys Trp Pro
65 70

<211> 125

<213> Homo sapiens

Met Val Ala Arg Val Phe Tyr Tyr Leu Cys Val Ile Ala Leu Gln Tyr
1 5 10 15

Val Ala Pro Leu Val Met Leu Leu His Thr Thr Leu Leu Leu Lys Thr
20 25 30

Leu Gly Asn His Ser Trp Gly Ile Tyr Pro Glu Ser Ile Ser Thr Leu
35 40 45

Pro Val Asp Asn Ser Leu Leu Ser Asn Ser Val Tyr Ser Glu Leu Pro
50 55 60

Ser Ala Glu Gly Lys Met Lys Val Thr Val Thr Gln Ile Thr Val Ala
65 70 75 80

Leu Ser Ser Leu Lys Asn Ile Phe Thr Pro Leu Leu Phe Arg Gly Leu
85 90 95

Leu Ser Phe Leu Thr Trp Trp Ile Ala Ala Cys Leu Phe Ser Thr Ser
100 105 110

Leu Phe Gly Leu Phe Tyr His Gln Tyr Leu Thr Val Ala
115 120 125

<211> 257

<213> Homo sapiens

Met Leu Leu Thr Leu Ala Gly Gly Ala Leu Phe Phe Pro Gly Leu Phe
1 5 10 15

Ala Leu Cys Thr Trp Ala Leu Arg Arg Ser Gln Pro Gly Trp Ser Arg

Gly

<400> 89

Phe Leu Gly Lys Cys Cys Leu Leu Gly Arg Leu Met Cys Ala Glu Cys


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<210> 90
<211> 87
<212> PRT
<213> Homo sapiens

<400> 90
Met Pro Thr Arg Gln Leu His Phe Lys Gln Leu Gln Leu Gln Gly Leu
  1              5              10              15
Leu Ile Val Ile Ala Val Thr Asp Asn Cys Leu Ser Phe Ser Val Lys
      20              25              30
Gly Asn Leu Gly Thr Cys Pro Val Arg Ile Leu Val Ala Ser Phe Cys
      35              40              45
Val His Val Cys Val His Val Arg Val Tyr Phe Ile Gln Ile Ser Leu
      50              55              60
Cys Leu Lys Ser Gly Arg Lys Tyr Phe Lys Phe Leu Leu Leu Asn Cys
      65              70              75              80
Ala Asn Val Glu Ile Ser Ser
      85

```

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<210> 91
<211> 82
<212> PRT
<213> Homo sapiens

<400> 91
Met Gly Gln Met Gln Leu Cys Trp Gly His Trp Glu Thr Phe Leu Pro
  1              5              10              15
Leu Leu Arg Leu Leu Val Ala Ile Val Leu Cys Lys Val Ser Ile Met
      20              25              30
Lys Glu Val Ile Ser Phe Gly Arg Leu Leu Glu Thr Met Leu Ile Pro
      35              40              45
Trp Pro Cys Val Thr Leu Met Val Met Glu Arg Lys Ser Phe Leu Leu
      50              55              60

```

<400> 92																	
Met	Ala	Gly	Arg	Thr	Thr	Ala	Ala	Pro	Arg	Gly	Pro	Tyr	Gly	Pro	Trp		
1				5					10					15			
Leu	Cys	Leu	Leu	Val	Ala	Leu	Ala	Leu	Asp	Val	Val	Arg	Val	Asp	Cys		
			20					25					30				
Gly	Gln	Ala	Pro	Leu	Asp	Pro	Val	Tyr	Leu	Pro	Ala	Ala	Leu	Glu	Leu		
		35					40					45					
Leu	Asp	Ala	Pro	Glu	His	Phe	Arg	Val	Gln	Gln	Val	Gly	His	Tyr	Pro		
	50					55					60						
Pro	Ala	Asn	Ser	Ser	Leu	Ser	Ser	Arg	Ser	Glu	Thr	Phe	Leu	Leu	Leu		
	65				70					75					80		
Gln	Pro	Trp	Pro	Arg	Ala	Gln	Pro	Leu	Leu	Arg	Ala	Ser	Tyr	Pro	Pro		
				85					90					95			
Phe	Ala	Thr	Gln	Gln	Val	Val	Pro	Pro	Arg	Val	Thr	Glu	Pro	His	Gln		
			100					105					110				
Arg	Pro	Val	Pro	Trp	Asp	Val	Arg	Ala	Val	Ser	Val	Glu	Ala	Ala	Val		
		115					120					125					
Thr	Pro	Ala	Glu	Pro	Tyr	Ala	Arg	Val	Leu	Phe	His	Leu	Lys	Gly	Gln		
	130					135					140						
Asp	Trp	Pro	Pro	Gly	Ser	Gly	Ser	Leu	Pro	Cys	Ala	Arg	Leu	His	Ala		
	145				150					155					160		
Thr	His	Pro	Ala	Gly	Thr	Ala	His	Gln	Ala	Cys	Arg	Phe	Gln	Pro	Ser		
				165					170					175			
Leu	Gly	Ala	Cys	Val	Val	Glu	Leu	Glu	Leu	Pro	Ser	His	Trp	Phe	Ser		
			180					185					190				
Gln	Ala	Ser	Thr	Thr	Arg	Ala	Glu	Leu	Ala	Tyr	Thr	Leu	Glu	Pro	Ala		
		195					200					205					
Ala	Glu	Gly	Pro	Gly	Gly	Cys	Gly	Ser	Gly	Glu	Glu	Asn	Asp	Pro	Gly		
	210					215					220						
Glu	Gln	Ala	Leu	Pro	Val	Gly	Gly	Val	Glu	Leu	Arg	Pro	Ala	Asp	Pro		
	225				230					235					240		
Pro	Gln	Tyr	Gln	Glu	Val	Pro	Leu	Asp	Glu	Ala	Val	Thr	Leu	Arg	Val		
				245					250					255			

Pro Asp Met Pro Val Arg Pro Gly Gln Leu Phe Ser Ala Thr Leu Leu
 260 265 270
 Leu Arg His Asn Phe Thr Ala Ser Leu Leu Thr Leu Arg Ile Lys Val
 275 280 285
 Lys Lys Gly Leu His Val Thr Ala Ala Arg Pro Ala Gln Pro Thr Leu
 290 295 300
 Trp Thr Ala Lys Leu Asp Arg Phe Lys Gly Ser Arg His His Thr Thr
 305 310 315 320
 Leu Ile Thr Cys His Arg Ala Gly Leu Thr Glu Pro Asp Ser Ser Ser
 325 330 335
 Pro Leu Glu Leu Ser Glu Phe Leu Trp Val Asp Phe Val Val Glu Asn
 340 345 350
 Ser Thr Gly Gly Gly Val Ala Val Thr Arg Pro Val Thr Trp Gln Leu
 355 360 365
 Glu Tyr Pro Gly Gln Ala Pro Glu Ala Glu Lys Asp Lys Met Val Trp
 370 375 380
 Glu Ile Leu Val Ser Glu Arg Asp Ile Arg Ala Leu Ile Pro Leu Ala
 385 390 395 400
 Lys Val Ser Glu Ala Cys Asp Ala Val Phe Val Ala Gly Lys Glu Ser
 405 410 415
 Arg Gly Ala Arg Gly Val Arg Val Asp Phe Trp Trp Arg Arg Leu Arg
 420 425 430
 Ala Ser Leu Arg Leu Thr Val Trp Ala Pro Leu Leu Pro Leu Arg Ile
 435 440 445
 Glu Leu Thr Asp Thr Thr Leu Glu Gln Val Arg Gly Trp Arg Val Pro
 450 455 460
 Gly Pro Ala Glu Gly Pro Ala Glu Pro Ala Ala Glu Ala Ser Asp Glu
 465 470 475 480
 Ala Glu Arg Arg Ala Arg Gly Cys His Leu Gln Tyr Gln Arg Ala Gly
 485 490 495
 Val Arg Phe Leu Ala Pro Phe Ala Ala His Pro Leu
 500 505

<210> 93
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 93
 Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
 1 5 10 15
 Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
 20 25 30

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Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu
 35 40 45

<210> 94
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 94
 Met Gly Phe Leu Gln Phe Gly Phe Gly Phe Leu Ser Ser Leu Asn Leu
 1 5 10 15
 Leu Phe Val Ser Phe Ala Gln Cys Pro Ser Gln Val Ala Pro Met Pro
 20 25 30
 Ala Pro Gln Gly Pro Pro Leu Pro Val Asn Phe Thr Pro Cys Ser Met
 35 40 45
 Tyr Phe Lys Pro Tyr Ile Leu Arg Met Phe Gln Thr Phe Gly Lys Thr
 50 55 60
 Pro Phe Met Cys Phe Ser Val Thr His Lys His Phe Ile Tyr Val Asp
 65 70 75 80
 Glu Glu Cys Thr Gln Ala Pro Phe Val Ile Pro Cys Pro Gln Gln Ala
 85 90 95
 Leu Asn Ser Asn Asn Asn Phe His Ser Phe Cys Ala Ser Leu Asn Ser
 100 105 110
 Ser Cys Leu Val Gly Ala Gln
 115

<210> 95
 <211> 289
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 95
 Met Ser Val Pro Gly Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile
 1 5 10 15
 Leu Ala Val Ser Ile Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln
 20 25 30
 Ile Leu Trp Thr Arg Ser Ser Ser Pro Ala His His Leu Ala Ser Pro
 35 40 45
 Phe Leu Cys Val Gln Ile Trp Gln Cys Gly Gly Xaa Leu Glu Thr His
 50 55 60
 Pro Cys Ser His Val Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser
 65 70 75 80

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Thr Glu Gln Lys Thr Pro Ser Leu Ser Trp Ser Pro Leu Gly Met Gly
35 40 45

<400> 97
Met Asp Thr Phe Cys Val Leu Ile Leu Cys Val Tyr Thr Cys Ala Ala
1 5 10 15

His Leu Trp Met Cys Val Cys Thr Ile Glu Ser Ile Ser Arg Arg Glu
35 40 45

Arg Glu Cys Val Cys Val Cys Val His Val Trp Met Cys Gly Tyr Ser
50 55 60

Met Ser Val Phe Arg Val Gln Val Tyr Gly Cys Ser Cys Ala Val Cys
65 70 75 80

Val Cys Ala His Thr His Ser Ala Ser Leu Cys Val Cys Met Cys Ile
85 90 95

Pro Cys Val Pro Met Tyr Arg Gly Cys Val Tyr Pro Ala Cys Leu Cys
100 105 110

Met Gly Glu His Met
115

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<210> 98
<211> 48
<212> PRT
<213> Homo sapiens
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<400> 98
Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe
1 5 10 15

Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe
20 25 30

Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp
35 40 45

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<210> 99
<211> 123
<212> PRT
<213> Homo sapiens
```

<400> 99
Met Gln Ala Gln Phe Cys Cys Ser Ala Val Cys Ser Ala Phe Leu His
1 5 10 15

Ile Leu Ala Ser Pro Ser Gly Ala Lys Met Ala Ala Ala Phe Gln Ala

```

<400> 100
Met Ile Thr Lys Pro Ser Lys Arg Gly Ile Ile Tyr Cys Leu Pro Leu
  1             5             10             15

Leu Phe Gln Leu Ser His Leu Ser Leu Ala Asn Leu Phe Leu Thr Ser
      20             25             30

Leu Thr Ser Pro His Leu Thr Glu Phe Phe His Leu Leu Cys Gln Thr
  35             40             45

Thr Gly Tyr Ser Asp Asp Asn Leu Leu Ser Leu Pro Val Ser Ser Gln
  50             55             60

Thr Lys Ala Cys Phe Thr Lys Trp Gly Val Ser Ala Ala Ser Ser Ser
  65             70             75             80

Pro Leu Thr His Ser Cys Ser Ala Arg Gly Ser Gly Arg Val Ser Glu
      85             90             95

His Arg Cys Gly Met Gln Ser Pro Arg Pro His Ala His Pro Ser Phe
      100            105            110

Ser Cys Thr Ser Ala Asn Ser Ser Trp Leu Thr Cys Ala Ser Trp Leu
      115            120            125

Glu Ser Leu
      130

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<400> 101

Met	Ser	Pro	Trp	Ser	Trp	Phe	Leu	Leu	Gln	Thr	Leu	Cys	Leu	Leu	Pro
1				5					10					15	
Thr	Gly	Ala	Ala	Ser	Arg	Arg	Gly	Ala	Pro	Gly	Thr	Ala	Asn	Cys	Glu
		20						25					30		
Leu	Lys	Pro	Gln	Gln	Ser	Glu	Leu	Asn	Ser	Phe	Leu	Trp	Thr	Ile	Lys
		35					40					45			
Arg	Asp	Pro	Pro	Ser	Tyr	Phe	Phe	Gly	Thr	Ile	His	Val	Pro	Tyr	Thr
	50					55					60				
Arg	Val	Trp	Asp	Phe	Ile	Pro	Asp	Asn	Ser	Lys	Glu	Ala	Phe	Leu	Gln
	65				70					75					80
Ser	Ser	Ile	Val	Tyr	Phe	Glu	Leu	Asp	Leu	Thr	Asp	Pro	Tyr	Thr	Ile
				85					90					95	
Ser	Ala	Leu	Thr	Ser	Cys	Gln	Met	Leu	Pro	Gln	Gly	Glu	Asn	Leu	Gln
		100						105					110		
Asp	Val	Leu	Pro	Arg	Asp	Ile	Tyr	Cys	Arg	Leu	Lys	Arg	His	Leu	Glu
	115					120						125			
Tyr	Val	Lys	Leu	Met	Met	Pro	Leu	Trp	Met	Thr	Pro	Asp	Gln	Arg	Gly
	130					135					140				
Lys	Gly	Leu	Tyr	Ala	Asp	Tyr	Leu	Phe	Asn	Ala	Ile	Ala	Gly	Asn	Trp
	145				150					155					160
Glu	Arg	Lys	Arg	Pro	Val	Trp	Val	Met	Leu	Met	Val	Asn	Ser	Leu	Thr
				165					170					175	
Glu	Val	Asp	Ile	Lys	Ser	Arg	Gly	Val	Pro	Val	Leu	Asp	Leu	Phe	Leu
		180						185					190		
Ala	Gln	Glu	Ala	Glu	Arg	Leu	Arg	Lys	Gln	Thr	Gly	Ala	Val	Glu	Lys
		195					200					205			
Val	Glu	Glu	Gln	Cys	His	Pro	Leu	Asn	Gly	Leu	Asn	Phe	Ser	Gln	Val
	210					215					220				
Ile	Phe	Ala	Leu	Asn	Gln	Thr	Leu	Leu	Gln	Gln	Glu	Ser	Leu	Arg	Ala
	225				230					235					240
Gly	Ser	Leu	Gln	Ile	Pro	Tyr	Thr	Thr	Glu	Asp	Leu	Ile	Lys	His	Tyr
				245					250					255	
Asn	Cys	Gly	Asp	Leu	Ser	Ser	Val	Ile	Leu	Ser	His	Asp	Ser	Ser	Gln
			260					265					270		
Val	Pro	Asn	Phe	Ile	Asn	Ala	Thr	Leu	Pro	Pro	Gln	Glu	Arg	Ile	Thr
		275					280					285			
Ala	Gln	Glu	Ile	Asp	Ser	Tyr	Leu	Arg	Arg	Glu	Leu	Ile	Tyr	Lys	Arg
		290				295					300				
Asn	Glu	Arg	Ile	Gly	Lys	Arg	Val	Lys	Ala	Leu	Leu	Glu	Glu	Phe	Pro
	305				310					315					320
Asp	Lys	Gly	Phe	Phe	Phe	Ala	Phe	Gly	Ala	Ala	Ser	Gln			

330

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<400> 102
Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
  1                      5                      10                      15

Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
      20                      25                      30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
      35                      40                      45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
      50                      55                      60

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```
<400> 103
Met Ser Glu Thr Phe Leu Glu Ser Val Asn Leu Leu Leu Val Ile Pro
  1                      5                        10                     15

Val Ala Thr Thr Leu Ile Ser Trp Met Ala Pro Arg Lys Lys Glu Ser
      20                          25                         30

Phe Gln Glu Leu Ser Arg Gln Val Val Pro Cys Gln Met Met Leu Leu
    35                       40                       45

Ser Thr Val Leu Pro Cys Leu Thr His Pro Arg Ile Lys Lys Gly Val
   50                          55                         60

Leu Arg Phe Pro Gly Val Thr Leu Trp Leu Tyr Leu Arg Pro Phe Gln
  65                       70                       75                      80

Phe Tyr Gln Phe Ile Pro Met Asp His Arg Ser Leu Asp Ser Gln Phe
     85                             90                            95

Arg Met Arg
```

```

<400> 104
Met Gly Ala Asn Phe Thr Val Phe Leu Gln Tyr Leu Val Phe Pro Ile
  1              5              10              15
Phe Gly Phe Leu Ile Ile Ser His Pro Ser Gln Pro Leu Phe Ser
      20              25              30

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<210> 105
<211> 82
<212> PRT
<213> Homo sapiens

<400> 105
Met Val Leu Arg Thr Asp Ser Val Pro Ala Leu Phe Thr Tyr Leu Ser
  1                      5                      10                      15

Thr Phe Trp Leu Ala Phe Ile Ser Gly Leu Ala Asp Ile Leu Thr Leu
      20                      25                      30

Cys Thr Lys Met Ala Asp Thr Ile Ile Phe His His Ile Leu Gln Lys
      35                      40                      45

Ile Leu Leu Leu Lys Asn Thr Leu Arg Asn Met Phe Tyr Gly Gln Ile
      50                      55                      60

Ser Leu Gly Asn Ser Glu Leu Leu Phe Leu Leu Cys Arg Ile Thr Met
      65                      70                      75                      80

His Cys

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```

<210> 106
<211> 44
<212> PRT
<213> Homo sapiens

<400> 106
Met Arg Pro Asn Val Leu Gln Val Ala Phe Pro Ile Ser Thr His Arg
  1              5              10              15
Cys Val Arg Pro Ser Cys Trp Leu Leu Phe Ile Leu Phe Arg Leu Leu
      20              25              30
Pro Ile Met Ile Ser Gln Pro Gly Cys Asn Ser Cys
    35              40

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<210> 107
<211> 227
<212> PRT
<213> Homo sapiens
<220>
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<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107

Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu
1 5 10 15

Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His
20 25 30

Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
35 40 45

Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
50 55 60

Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
65 70 75 80

Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
85 90 95

Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
100 105 110

Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Xaa Gly Lys Ile
115 120 125

Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
130 135 140

Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
145 150 155 160

Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
165 170 175

Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
180 185 190

Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
195 200 205

Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala Glu Ile
210 215 220

Ala Ala Cys
225

<210> 108

<211> 65

<212> PRT

<213> Homo sapiens

<400> 108

Met Gly Ala Arg Thr Pro His Trp Gly Gln Gly Gln Cys Trp Arg Ile
1 5 10 15

Leu Ile Pro Phe Leu Leu Ser Phe Thr Phe Val Phe Asn Leu Gly Val

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Leu

<210> 111
<211> 276

<212> PRT

<213> Homo sapiens

<400> 111

Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
 1 5 10 15

Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Gly Ser
 20 25 30

Ser Ser Ser Pro Arg Thr Pro Pro Gly Pro Ala Arg Pro Pro Cys Ala
 35 40 45

Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
 50 55 60

Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val
 65 70 75 80

Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
 85 90 95

Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
 100 105 110

Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
 115 120 125

Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
 130 135 140

Ser Asp Ser Met Arg Gly Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala
 145 150 155 160

Pro Ala Thr Leu Arg Ser Phe Leu Phe Gly Gly Arg Gly Glu Gly Val
 165 170 175

Asp Pro Gln Leu Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu
 180 185 190

Val Ala Thr Gly Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys
 195 200 205

Arg Arg Arg Pro Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser
 210 215 220

Gln Gln Pro Leu Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly
 225 230 235 240

Ala Phe Gly Asp Ser Pro Thr Pro Thr Pro Asp His Asp Glu Pro Arg
 245 250 255

Gly Gly Pro Arg Pro Gly Met Pro His Pro Lys Gly Ala Pro Ala Phe
 260 265 270

Gln Leu Asn Arg
 275

<210> 112

<211> 86

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<213> Homo sapiens

Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu Met Met Val Val
1 5 10 15

Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His Glu Ala Leu Leu
20 25 30

Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val Phe Tyr Pro Glu
35 40 45

Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys Asn Asn Tyr Arg
50 55 60

Gln Lys Ile Thr Ser Trp Met Glu Ala Asp Ser Gln Val Pro Gly Gly
65 70 75 80

Arg Gly Arg Arg Asn Leu
85

<211> 29

<212> PRT

<213> Homo sapiens

<400> 113

Ala Ala Pro Asp Gly Gly Thr Met Ser Ser Ser Gly Gly Ala Pro Gly
1 5 10 15

Ala Ser Ala Ser Ser Ala Pro Pro Ala Gln Glu Glu Gly
20 25

<210> 114

◀211▶ 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 114

Arg Arg Arg Arg Asn Gln Asp Arg Pro Gln Leu Xaa Lys Lys Phe Cys
1 5 10 15

Glu Ala Ser Trp Arg Phe Leu Phe Tyr Leu Ser Ser Phe Val Gly Gly
20 25 30

Leu Ser Val Leu Tyr His Glu Ser Trp Leu Trp Ala Pro Val Met Cys
35 40 45

Trp Asp Arg Tyr Pro Asn Gln Thr Leu Lys Pro Ser Leu Tyr Trp Trp
50 55 60

Tyr Leu Leu Glu Leu Gly Phe Tyr Leu Ser Leu Leu Ile Arg Leu Pro
65 70 75 80

Asn Arg Gly Pro Phe Phe Gly Tyr Tyr Phe Phe Asn Gly Leu Leu
180 185 190

Leu Ser Val Leu Tyr His Glu Ser Trp Leu Trp Ala Pro Val
35 40 45

Leu Pro Phe Asp Val Lys Arg Lys Asp Phe Lys Glu Gln Val Ile His
35 40 45


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<220>
<221> SITE
<222> (280)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 120

Lys	Thr	Tyr	Val	Leu	Pro	Ser	Pro	Gly	Leu	Ser	Ile	Arg	Pro	Pro	Gly
1				5					10					15	
Arg	Glu	Val	Pro	Gly	Ser	His	Pro	Phe	Pro	Ala	Pro	Ala	Leu	Glu	Thr
			20					25					30		
Ala	Ala	Pro	Arg	Leu	Leu	Arg	Asp	Ser	Asp	Ser	Met	Lys	Ala	Pro	Gly
		35					40					45			
Arg	Leu	Val	Leu	Ile	Ile	Leu	Cys	Ser	Val	Val	Phe	Ser	Ala	Val	Tyr
	50					55					60				
Ile	Leu	Leu	Cys	Cys	Trp	Ala	Gly	Leu	Pro	Leu	Cys	Leu	Ala	Thr	Cys
	65				70					75					80
Leu	Asp	His	His	Phe	Pro	Thr	Gly	Ser	Arg	Pro	Thr	Val	Pro	Gly	Pro
				85					90					95	
Leu	His	Phe	Ser	Gly	Tyr	Ser	Ser	Val	Pro	Asp	Gly	Lys	Pro	Leu	Val
			100					105					110		
Arg	Glu	Pro	Cys	Arg	Ser	Cys	Ala	Val	Val	Ser	Ser	Ser	Gly	Gln	Met
		115					120						125		
Leu	Gly	Ser	Gly	Leu	Gly	Ala	Glu	Ile	Asp	Ser	Ala	Glu	Cys	Val	Phe
	130					135					140				
Arg	Met	Asn	Gln	Ala	Pro	Thr	Val	Gly	Phe	Glu	Ala	Asp	Val	Gly	Gln
	145				150				155						160
Arg	Ser	Thr	Leu	Arg	Val	Val	Ser	His	Thr	Ser	Val	Pro	Leu	Leu	Leu
			165					170					175		
Arg	Asn	Tyr	Ser	His	Tyr	Phe	Gln	Lys	Ala	Arg	Asp	Thr	Leu	Tyr	Met
		180					185						190		
Val	Trp	Gly	Gln	Gly	Arg	His	Met	Asp	Arg	Val	Leu	Gly	Gly	Arg	Thr
		195					200					205			
Tyr	Arg	Thr	Leu	Leu	Gln	Leu	Thr	Arg	Met	Tyr	Pro	Gly	Leu	Gln	Val
	210					215					220				
Tyr	Thr	Phe	Thr	Glu	Arg	Met	Met	Ala	Tyr	Cys	Asp	Gln	Ile	Phe	Gln
	225				230					235					240
Asp	Glu	Thr	Gly	Lys	Asn	Arg	Arg	Gln	Ser	Gly	Ser	Phe	Leu	Ser	Thr
			245						250				255		
Gly	Trp	Phe	Thr	Met	Ile	Leu	Ala	Leu	Glu	Leu	Cys	Glu	Glu	Ile	Val
		260					265					270			
Val	Tyr	Gly	Met	Val	Ser	Asp	Xaa	Tyr	Cys	Arg	Glu	Lys	Ser	His	Pro
		275					280					285			
Ser	Val	Pro	Tyr	His	Tyr	Phe	Glu	Lys	Gly	Arg	Leu	Asp	Glu	Cys	Gln
	290					295					300				
Met	Tyr	Leu	Ala	His	Glu	Gln	Ala	Pro	Arg	Ser	Ala	His	Arg	Phe	Ile

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<210> 121
<211> 966
<212> DNA
<213> Homo sapiens
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<210> 122
<211> 185
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
Thr Arg Asn Lys Ile Trp Ser Ser Thr Arg Gly Gly Gly Arg Ser Arg
  1             5             10             15

Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Ser His Leu
      20             25             30

Ala Ala Val His Met Ala Ala Trp Val Phe Pro Leu Leu Ser Val Ile
      35             40             45

His Thr Xaa Leu Pro Gln Ala Ser Pro Glu Ile Trp Val Thr Gln Ser
      50             55             60

Glu Gly Gly Asp Gln Gly Val Ala Cys Glu Xaa Val Gly Gly Val Leu
  65             70             75             80

Ser Thr Leu Asp Arg Ile Glu Leu Cys Phe Leu Ser Asp Arg Ala Ser
      85             90             95

Ser Gly Cys Xaa Asp Lys Xaa Pro Gln Thr Gly Val Leu Phe Leu Gly
      100            105            110

Ala Gly Ile Cys His Glu Gly Val Gly Arg Ala Gly Ser Ser Arg Ala
      115            120            125

Leu Ser Pro Gly Pro Ala Xaa Ala Val Phe Pro Ser Phe Pro Cys Ala
      130            135            140

Phe Pro Gly Pro Ser Cys Val Cys Leu Cys Pro Arg Leu Ser Trp Xaa
      145            150            155            160

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<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 125

Pro Gly Ala Gly Arg Pro Lys Pro Gly Ala Ala Ala Met Gly Ala Cys
 1 5 10 15
 Leu Gly Ala Cys Ser Leu Leu Ser Cys Ala Ser Cys Leu Cys Gly Ser
 20 25 30
 Ala Pro Cys Ile Leu Cys Ser Cys Cys Pro Ala Ser Arg Xaa Ser Thr
 35 40 45
 Val Ser Arg Leu Ile Phe Thr Phe Phe Leu Phe Leu Gly Val Leu Val
 50 55 60
 Ser Ile Ile Met Leu Ser Pro Gly Val Glu Ser Gln Leu Tyr Lys Leu
 65 70 75 80
 Pro Trp Val Cys Glu Glu Gly Ala Gly Ile Pro Thr Val Leu Gln Gly
 85 90 95
 His Ile Asp Cys Gly Ser Leu Leu Gly Tyr Arg Ala Val Tyr Arg Met
 100 105 110
 Cys Phe Ala Thr Ala Ala Phe Phe Phe Phe Phe Thr Leu Leu Met Leu
 115 120 125
 Cys Val Ser Ser Ser Arg Asp Pro Arg Ala Ala Ile Gln Asn Gly Phe
 130 135 140
 Trp Phe Phe Lys Phe Leu Ile Leu Val Gly Xaa Thr Val Gly Ala Phe
 145 150 155 160
 Tyr Ile Pro Asp Gly Ser Phe Thr Asn Ile Trp Phe Tyr Phe Gly Val
 165 170 175
 Val Gly Ser Phe Leu Phe Ile Leu Ile Gln Leu Val Leu Leu Ile Asp
 180 185 190
 Phe Ala His Ser Trp Asn Gln Arg Trp Leu Gly Lys Ala Glu Glu Cys
 195 200 205
 Asp Ser Arg Ala Trp Tyr Ala Gly Leu Phe Phe Phe Thr Leu Leu Phe
 210 215 220
 Tyr Leu Leu Ser Ile Ala Ala Val Ala Leu Met Phe Met Tyr Tyr Thr
 225 230 235 240
 Glu Pro Ser Gly Cys His Glu Gly Lys Val Phe Ile Ser Leu Asn Leu
 245 250 255
 Thr Phe Cys Val Cys Val Ser Ile Ala Ala Val Leu Pro Lys Val Gln
 260 265 270
 Asp Ala Gln Pro Asn Ser Gly Leu Leu Gln Ala Ser Val Ile Thr Leu
 275 280 285
 Tyr Thr Met Phe Val Thr Trp Ser Ala Leu Ser Ser Ile Pro Glu Gln
 290 295 300

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Lys Cys Asn Pro His Leu Pro Thr Gln Leu Gly Asn Glu Thr Val Val
 305 310 315 320
 Ala Gly Pro Glu Gly Tyr Glu Thr Gln Trp Trp Asp Ala Pro Ser Ile
 325 330 335
 Val Gly Leu Ile Ile Phe Leu Leu Cys Thr Leu Phe Ile Ser Leu Arg
 340 345 350
 Ser Ser Asp His Arg Gln Val Asn Ser Leu Met Gln Thr Glu Glu Cys
 355 360 365
 Pro Pro Met Leu Asp Ala Thr Gln Gln Gln Gln Gln Gln Val Ala Ala
 370 375 380
 Cys Glu Gly Arg Ala Phe Asp Asn Glu Gln Asp Gly Val Thr Tyr Ser
 385 390 395 400
 Tyr Ser Phe Phe His Phe Cys Leu Val Leu Ala Ser Leu His Val Met
 405 410 415
 Met Thr Leu Thr Asn Trp Tyr Lys Pro Gly Glu Thr Arg Lys Met Ile
 420 425 430
 Ser Thr Trp Thr Ala Val Trp Val Lys Ile Cys Ala Ser Trp Ala Gly
 435 440 445
 Leu Leu Leu Tyr Leu Trp Thr Leu Val Ala Pro Leu Leu Leu Arg Asn
 450 455 460
 Arg Asp Phe Ser
 465

<210> 126
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 126
 Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
 1 5 10 15
 Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
 20 25 30
 Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg
 35 40

<210> 127
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 127
 Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
 1 5 10 15
 Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile

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20 25 30
 Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45
 Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Leu
 50 55 60
 Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80
 Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95
 Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110
 Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125
 Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140
 Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
 145 150 155

<210> 128
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 128
 Ser Val Ser Thr Thr Arg Ser Phe Ser Val Asp Ser Ser Ala Lys Thr
 1 5 10 15
 Ala Ala Met Pro Val Thr Val Thr Arg Thr Thr Ile Thr Thr Thr Thr
 20 25 30
 Thr Ser Ser Ser Gly Leu Gly Ser Pro
 35 40

<210> 129
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ser Thr Cys Val Ala Phe Ser Leu Val Ala Ser Val Gly Ala Trp Thr
 1 5 10 15

Gly

<210> 130
 <211> 8
 <212> PRT
 <213> Homo sapiens

0005558-070001

<400> 130
Met Phe Thr Trp Cys Phe Cys Phe
1 5

<210> 131
<211> 6
<212> PRT
<213> Homo sapiens

<400> 131
Ile Leu Ile Val Glu Leu
1 5

<210> 132
<211> 22
<212> PRT
<213> Homo sapiens

<400> 132
Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile Thr Phe Ala Cys Tyr Ala
1 5 10 15

Ala Leu Phe Cys Leu Ser
20

<210> 133
<211> 12
<212> PRT
<213> Homo sapiens

<400> 133
Ser Ile Ile Tyr Pro Thr Thr Tyr Val Gln Phe Leu
1 5 10

<210> 134
<211> 8
<212> PRT
<213> Homo sapiens

<400> 134
Arg Asp His Ala Ile Ala Ala Thr
1 5

<210> 135
<211> 29
<212> PRT
<213> Homo sapiens

<400> 135
Ala Tyr Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile
1 5 10 15

Thr Gly Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val
20 25

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<400> 139
Gly Leu Asp Thr Gly Glu Met Ser Asn Ser Thr Ser Ser Leu Lys Arg
  1              5              10              15

Gln Arg Leu Gly Ser Glu Arg Ala Ala Ser His Val Ala Gln Ala Asn
      20              25              30

Leu Lys Leu Leu Asp Val Ser Lys Ile Phe Pro Ile Ala Glu Ile Ala
    35              40              45

Glu Glu Ser Ser Pro Glu Val Val Pro Val Glu Leu Leu Cys Met Pro
    50              55              60

Ser Pro Ala Ser Gln Gly Asp Leu His Thr Lys Pro Leu Gly Thr Asp
  65              70              75              80

Asp Asp Phe Trp Gly Pro Thr Gly Pro Val Ala Thr Glu Val Val Asp
      85              90              95

Lys Glu Lys Asn Leu Tyr Arg Val His Phe Pro Val Ala Gly Ser Tyr
    100              105              110

Arg Trp Pro Asn Thr Gly Leu Cys Phe Val Met Arg Glu Ala Val Thr
    115              120              125

Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly Glu Ile Asn

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<210> 140

<211> 64
 <212> PRT
 <213> Homo sapiens

<400> 140
 Gly Leu Asp Thr Gly Glu Met Ser Asn Ser Thr Ser Ser Leu Lys Arg
 1 5 10 15
 Gln Arg Leu Gly Ser Glu Arg Ala Ala Ser His Val Ala Gln Ala Asn
 20 25 30
 Leu Lys Leu Leu Asp Val Ser Lys Ile Phe Pro Ile Ala Glu Ile Ala
 35 40 45
 Glu Glu Ser Ser Pro Glu Val Val Pro Val Glu Leu Leu Cys Met Pro
 50 55 60

<210> 141
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 141
 Ser Pro Ala Ser Gln Gly Asp Leu His Thr Lys Pro Leu Gly Thr Asp
 1 5 10 15
 Asp Asp Phe Trp Gly Pro Thr Gly Pro Val Ala Thr Glu Val Val Asp
 20 25 30
 Lys Glu Lys Asn Leu Tyr Arg Val His Phe Pro Val Ala Gly Ser Tyr
 35 40 45
 Arg Trp Pro Asn Thr Gly Leu Cys Phe Val Met Arg Glu
 50 55 60

<210> 142
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 142
 Ala Val Thr Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly
 1 5 10 15
 Glu Ile Asn Pro Gln His Ser Trp Met Val Ala Gly Pro Leu Leu Asp
 20 25 30
 Ile Lys Ala Glu Pro Gly Ala Val Glu Ala Val His Leu Pro His Phe
 35 40 45
 Val Ala Leu Gln Gly Gly His Val Asp Thr Ser Leu Phe Gln Val
 50 55 60

<210> 143
 <211> 65

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<213> Homo sapiens

Ala His Phe Lys Glu Glu Gly Met Leu Leu Glu Lys Pro Ala Arg Val
1 5 10 15

Glu Leu His His Ile Val Leu Glu Asn Pro Ser Phe Ser Pro Leu Gly
20 25 30

Val Leu Leu Lys Met Ile His Asn Ala Leu Arg Phe Ile Pro Val Thr
35 40 45

Ser Val Val Leu Leu Tyr His Arg Val His Pro Glu Glu Val Thr Phe
50 55 60

His
65

<211> 65

<213> Homo sapiens

Leu Tyr Leu Ile Pro Ser Asp Cys Ser Ile Arg Lys Glu Leu Glu Leu
1 5 10 15

Cys Tyr Arg Ser Pro Gly Glu Asp Gln Leu Phe Ser Glu Phe Tyr Val
20 25 30

Gly His Leu Gly Ser Gly Ile Arg Leu Gln Val Lys Asp Lys Lys Asp
35 40 45

Glu Thr Leu Val Trp Glu Ala Leu Val Lys Pro Gly Asp Leu Met Pro
50 55 60

Ala
65

<211> 65

<213> Homo sapiens

Thr Thr Leu Ile Pro Pro Ala Arg Ile Ser Val Pro Ser Pro Leu Asp
1 5 10 15

Ala Pro Gln Leu Leu His Phe Val Asp Gln Tyr Arg Glu Gln Leu Ile
20 25 30

Ala Arg Val Thr Ser Val Glu Val Val Leu Asp Lys Leu His Gly Gln
35 40 45

Val Leu Ser Gln Glu Gln Tyr Glu Arg Val Leu Ala Glu Asn Thr Arg
50 55 60

Pro

<400> 149
Ala Pro His Arg Ser Gly Ala Ala His Ser Ser Ala Arg Cys Gly Leu
1 5 10 15
Ser Ala Ala Glu Arg Pro Arg Gln Phe Arg Thr Lys Arg Cys Gly Gln
20 25 30
Ala Thr Gly Pro Ala Gly Asn Ile Met Ala Glu Lys Val Asn Asn Phe

35 40 45
 Pro Pro Leu Pro Lys Phe Ile Pro Leu Lys Pro Cys Phe Tyr Gln Asp
 50 55 60
 Phe Glu Ala Asp Ile Pro Pro Gln His Val Ser Met Thr Lys Arg Leu
 65 70 75 80
 Tyr Tyr Leu Trp Met
 85

<210> 150
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 150
 Gly Ala Ala His Ser Ser Ala Arg Cys Gly Leu Ser Ala Ala Glu Arg
 1 5 10 15
 Pro Arg Gln Phe
 20

<210> 151
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 151
 Ala Thr Gly Pro Ala Gly Asn Ile Met Ala Glu Lys Val Asn Asn Phe
 1 5 10 15
 Pro Pro Leu Pro Lys Phe Ile
 20

<210> 152
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 152
 Ile Pro Pro Gln His Val Ser Met Thr Lys Arg Leu Tyr
 1 5 10

<210> 153
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 153
 His His Gly Arg Glu Ser Glu Gln Leu Pro Thr Ile Ala Gln Ile His
 1 5 10 15
 Pro Ala Glu Ala Met Phe Leu Pro Arg Leu Arg Gly Arg Tyr Ser Ser
 20 25 30
 Pro Ala Cys Gln His Asp Gln Ala Pro Leu Leu Pro Leu Asp Val Thr

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Leu Val Asp Ser Ser Lys Lys Glu Pro Arg Trp Asn Phe Trp Lys Tyr
65 70 75 80

Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
20 25 30

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<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (225)
 <223> Xaa equals any of the naturally occurring L-amino acids.

 <220>
 <221> SITE
 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 162
 Val Leu Asn Gly Lys Ile Leu Val Asp Ile Ser Asn Asn Leu Lys Ile
 1 5 10 15
 Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
 20 25 30
 Gly Ala His Val Val Lys Ala Phe Asn Thr Ile Ser Ala Trp Ala Leu
 35 40 45
 Gln Ser Gly Ala Leu Asp Ala Ser Arg Gln Val Phe Val Cys Gly Asn
 50 55 60
 Asp Ser Lys Ala Lys Gln Arg Val Met Asp Ile Val Arg Asn Leu Gly
 65 70 75 80
 Leu Thr Pro Met Asp Gln Gly Ser Leu Met Ala Ala Lys Glu Ile Glu
 85 90 95
 Lys Tyr Pro Leu Gln Leu Phe Pro Met Trp Arg Phe Pro Phe Tyr Leu
 100 105 110
 Ser Ala Val Leu Cys Val Phe Leu Phe Phe Tyr Cys Val Ile Arg Asp
 115 120 125
 Val Ile Tyr Pro Tyr Val Tyr Glu Lys Lys Asp Asn Thr Phe Arg Met
 130 135 140
 Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr Leu
 145 150 155 160
 Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn Cys
 165 170 175
 Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His Trp
 180 185 190
 Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala Phe
 195 200 205
 Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val Arg
 210 215 220
 Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys Glu
 225 230 235 240

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35 40 45

Gly Leu Leu Cys Arg Leu His Leu His Gly Arg Thr Glu His Ser Val
50 55 60

Cys Val Ala Gly Gln Gly Ser Asp Ser Ala Lys Ala Ala His Pro
65 70 75 80

Ser Val Gln Gly Glu Trp Asn Pro His Ala Gly His Leu Pro Phe Leu
85 90 95

Pro Asp Pro Ser Leu Pro Leu His Val Leu Val Leu Trp Pro Pro Ala
100 105 110

Gly Thr Lys Pro Ala Pro Ser Thr Leu Gln His Pro Ile Leu Leu Gln
115 120 125

Arg Gly Gln Cys Leu Pro Arg Ser Ser Ser Asp Leu Leu Val Leu Ser
130 135 140

Ala Val Gln Glu Gly Ser Pro Ala Leu
145 150

<210> 170
<211> 21
<212> PRT
<213> Homo sapiens

<400> 170
Cys Ala Leu Pro His Ser Ser Lys Leu Pro Lys Ser Lys Pro Pro His
1 5 10 15

Asp His Thr Ser Cys
20

<210> 171
<211> 24
<212> PRT
<213> Homo sapiens

<400> 171
Glu Ala Pro Gly Arg Pro Trp Gly Leu Leu Cys Arg Leu His Leu His
1 5 10 15

Gly Arg Thr Glu His Ser Val Cys
20

<210> 172
<211> 25
<212> PRT
<213> Homo sapiens

<400> 172
Gln Gly Ser Asp Ser Ala Lys Ala Ala Ala His Pro Ser Val Gln Gly
1 5 10 15

Glu Trp Asn Pro His Ala Gly His Leu
20 25

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<400> 175																	
Thr	Arg	Pro	Val	Ser	Cys	Leu	Thr	Ala	Gly	Val	Leu	Asn	Pro	Glu	Leu		
1				5					10					15			
Gly Tyr Asp Ala Leu Leu Val Gly Thr Gln Thr Asn Leu Leu Ala Tyr																	
			20					25						30			
Asp Val Tyr Asn Asn Ser Asp Leu Phe Tyr Arg Glu Val Ala Asp Gly																	
		35					40					45					
Ala Asn Ala Ile Val Leu Gly Thr Leu Gly Asp Ile Ser Ser Pro Leu																	
		50				55					60						
Ala Ile Ile Gly Gly Asn Cys Ala Leu Gln Gly Phe Asn His Glu Gly																	
		65			70					75						80	
Ser Asp Leu Phe Trp Thr Val Thr Gly Asp Asn Val Asn Ser Leu Ala																	
				85					90						95		
Leu Cys Asp Phe Asp Gly Asp Gly Lys Lys Glu Leu Leu Val Gly Ser																	
			100					105						110			
Glu Asp Phe Asp Ile Arg Val Phe Lys Glu Asp Glu Ile Val Ala Glu																	
			115					120					125				
Met Thr Glu Thr Glu Ile Val Thr Ser Leu Cys Pro Met Tyr Gly Ser																	
			130			135						140					
Arg Phe Gly Tyr Ala Leu Ser Asn Gly Thr Val Gly Val Tyr Asp Lys																	
					150					155						160	

Thr Ser Arg Tyr Trp Arg Ile Lys Ser Lys Asn His Ala Met Ser Ile
165 170 175

His Val Phe Asp Leu Asn Ser Asp Gly Val Asn Glu Leu Ile Thr Gly
180 185 190

Trp Ser Asn Gly Lys Val Asp Ala Arg Ser Asp Arg Thr Gly Glu Val
195 200 205

Ile Phe Lys Asp Asn Phe Ser Ser Ala Ile Ala Gly Val Val Glu Gly
210 215 220

Asp Tyr Arg Met Asp Gly His Ile Gln Leu Ile Cys Cys Ser Val Asp
225 230 235 240

Gly Glu Ser Lys Leu Gly
245

<210> 176

<211> 52

<212> PRT

<213> Homo sapiens

<400> 176

Thr Arg Pro Val Ser Cys Leu Thr Ala Gly Val Leu Asn Pro Glu Leu
1 5 10 15

Gly Tyr Asp Ala Leu Leu Val Gly Thr Gln Thr Asn Leu Leu Ala Tyr
20 25 30

Asp Val Tyr Asn Asn Ser Asp Leu Phe Tyr Arg Glu Val Ala Asp Gly
35 40 45

Ala Asn Ala Ile
50

<210> 177

<211> 53

<212> PRT

<213> Homo sapiens

<400> 177

Val Leu Gly Thr Leu Gly Asp Ile Ser Ser Pro Leu Ala Ile Ile Gly
1 5 10 15

Gly Asn Cys Ala Leu Gln Gly Phe Asn His Glu Gly Ser Asp Leu Phe
20 25 30

Trp Thr Val Thr Gly Asp Asn Val Asn Ser Leu Ala Leu Cys Asp Phe
35 40 45

Asp Gly Asp Gly Lys
50

<210> 178

<211> 54

<212> PRT

<213> Homo sapiens

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<400> 178

Lys Glu Leu Leu Val Gly Ser Glu Asp Phe Asp Ile Arg Val Phe Lys
 1 5 10 15

Glu Asp Glu Ile Val Ala Glu Met Thr Glu Thr Glu Ile Val Thr Ser
 20 25 30

Leu Cys Pro Met Tyr Gly Ser Arg Phe Gly Tyr Ala Leu Ser Asn Gly
 35 40 45

Thr Val Gly Val Tyr Asp
 50

<210> 179

<211> 37

<212> PRT

<213> Homo sapiens

<400> 179

Lys Thr Ser Arg Tyr Trp Arg Ile Lys Ser Lys Asn His Ala Met Ser
 1 5 10 15

Ile His Val Phe Asp Leu Asn Ser Asp Gly Val Asn Glu Leu Ile Thr
 20 25 30

Gly Trp Ser Asn Gly
 35

<210> 180

<211> 50

<212> PRT

<213> Homo sapiens

<400> 180

Lys Val Asp Ala Arg Ser Asp Arg Thr Gly Glu Val Ile Phe Lys Asp
 1 5 10 15

Asn Phe Ser Ser Ala Ile Ala Gly Val Val Glu Gly Asp Tyr Arg Met
 20 25 30

Asp Gly His Ile Gln Leu Ile Cys Cys Ser Val Asp Gly Glu Ser Lys
 35 40 45

Leu Gly
 50

<210> 181

<211> 55

<212> PRT

<213> Homo sapiens

<400> 181

His Ala Ser Gly Arg Gly Ala Gly Gly Gly Gly Gly Gly Arg
 1 5 10 15

Asp Pro Ala Gly Gln Val Gly Thr Ala Arg Ser Gly Cys Gly Arg Cys
 20 25 30

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Val Trp Asn Ala Thr Gly Cys Ala Asp Ala Gly Pro His His Asp His
245 250 255

<210> 187

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<400> 189
Asp Trp Leu Leu Ser Val Ser Phe Ala Ala Val Phe Phe Ser Val Ser
  1                      5                      10                      15

Ile Lys Gly Gly Arg Arg Ser Ile Ser Phe Ser Val Gly Ala Ser Ser
      20                      25                      30

Val Val Gly Ser Gly Gly Ser Ser Asp Lys Gly Lys Leu Ser Leu Gln
      35                      40                      45

Asp Val Ala Glu Leu Ile Arg Ala Arg Ala Cys Gln Arg Val Val Val
      50                      55                      60

Met Val Gly Ala Gly Ile Ser Thr Pro Ser Gly Ile Pro Asp Phe Arg
      65                      70                      75                      80

Ser Pro Gly Ser Gly Leu Tyr Ser Asn Leu Gln Gln Tyr Asp Leu Pro
      85                      90                      95

Tyr Pro Glu Ala Ile Phe Glu Leu Pro Phe Phe Phe His Asn Pro Lys
      100                      105                      110

Pro Phe Phe Thr Leu Ala Lys Glu Leu Tyr Pro Gly Asn Tyr Lys Pro
      115                      120                      125

Asn Val Thr His Tyr Phe Leu Arg Leu Leu His Asp Lys Gly Leu Leu
      130                      135                      140

Leu Arg Leu Tyr Thr Gln Asn Ile Asp Gly Leu Glu Arg Gly Val Leu
      145                      150                      155                      160

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<400> 193
Leu Tyr Pro Gly Asn Tyr Lys Pro Asn Val Thr His Tyr Phe Leu Arg
1 5 10 15

Leu Leu His Asp Lys Gly Leu Leu
20

<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<400> 194
Leu Pro Ser Pro Glu Val Val Leu Leu Ala Leu Arg Ala His Leu Gly
1 5 10 15

Gly Gly Ser Asn Thr Ser Leu Trp Leu Glu Phe
20 25

<210> 195
<211> 128
<212> PRT
<213> Homo sapiens

<400> 195
Arg Asp Gly Arg Gln Gly Ser Pro Leu Pro Gly Leu His Arg Arg Cys
1 5 10 15

Glu Ala Arg His Cys Val Leu Trp Glu Pro Leu Pro Gln Arg Phe Leu
20 25 30

Leu His Val Val Asp Phe Pro Met Ala Asp Leu Leu Leu Ile Leu Gly
35 40 45

Thr Ser Leu Glu Val Glu Pro Phe Ala Ser Leu Thr Glu Ala Val Arg
50 55 60

Ser Ser Val Pro Arg Leu Leu Ile Asn Arg Asp Leu Val Gly Pro Leu
65 70 75 80

Ala Trp His Pro Arg Ser Arg Asp Val Ala Gln Leu Gly Asp Val Val
85 90 95

His Gly Val Glu Ser Leu Val Glu Leu Leu Gly Trp Thr Glu Glu Met
100 105 110

Arg Asp Leu Val Gln Arg Glu Thr Gly Lys Leu Asp Gly Pro Asp Lys
115 120 125

<210> 196
<211> 24
<212> PRT
<213> Homo sapiens

<400> 196
Leu Pro Gly Leu His Arg Arg Cys Glu Ala Arg His Cys Val Leu Trp
1 5 10 15

Glu Pro Leu Pro Gln Arg Phe Leu

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```
<210> 197
<211> 25
<212> PRT
<213> Homo sapiens
```

Leu Glu Val Glu Pro Phe Ala Ser Leu
20 25

```
<210> 198
<211> 22
<212> PRT
<213> Homo sapiens
```

Leu Gly Asp Val Val His
20

```
<210> 199
<211> 23
<212> PRT
<213> Homo sapiens
```

Leu Val Gln Arg Glu Thr Gly
20

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<210> 200
<211> 96
<212> PRT
<213> Homo sapiens
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Thr Phe Ala Ser Ala Thr Cys Thr Val Cys Gln Arg Pro Phe Pro Gly
20 25 30

Glu Asp Ile Arg Ala Asp Val Met Ala Asp Arg Val Pro Arg Cys Pro
35 40 45

Val Cys Thr Gly Val Val Lys Pro Asp Ile Val Phe Phe Gly Ser Arg
50 55 60

Cys Pro Arg Gly Ser Cys Cys Met Trp Leu Ile Ser Pro Trp Gln Ile

65 70 75 80
 Cys Cys Ser Ser Leu Gly Pro Pro Trp Arg Trp Ser Leu Leu Pro Ala
 85 90 95

<210> 201
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 201
 Glu Ala His Gly Thr Phe Ala Ser Ala Thr Cys Thr Val Cys Gln Arg
 1 5 10 15

Pro Phe Pro Gly Glu Asp Ile Arg Ala Asp Val Met Ala Asp Arg Val
 20 25 30

Pro

<210> 202
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 202
 Phe Phe Gly Ser Arg Cys Pro Arg Gly Ser Cys Cys Met Trp Leu Ile
 1 5 10 15

Ser Pro Trp Gln Ile Cys Cys Ser Ser Leu Gly
 20 25

<210> 203
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 203
 Thr Arg Pro Leu Ser Pro Thr Phe Ser Lys Leu Trp Ala Ala Gly Val
 1 5 10 15

Thr Val Cys Thr Asp Phe Ser Met Cys Val Cys Gly Cys Met Tyr Glu
 20 25 30

Cys Val Cys Val Phe Val Cys Leu Cys Ile Tyr Arg Gly Met Arg Val
 35 40 45

Pro Trp Val Cys Thr Leu Asp Ile Pro Leu Tyr Ile Leu Cys Val Leu
 50 55 60

Thr Trp Thr His Ser Val Tyr Leu Tyr Cys Val Tyr Thr His Val Gln
 65 70 75 80

Pro Ile Cys Pro Tyr Ile Gly Val Cys Val Tyr Tyr Val Cys Thr Leu
 85 90 95

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Ser Thr Tyr Gly Cys Val Cys Val Pro Leu Ser Pro Tyr Leu Gly Glu
100 105 110

Arg Glu Asn Val Cys Val Cys Val Ser Met Tyr Gly Cys Val Asp Ile
115 120 125

Leu Cys Leu Tyr Leu Glu Cys Arg Tyr Met Asp Val His Val Leu Cys
130 135 140

Val Cys Val Arg Thr His Thr Leu Pro Leu Cys Val Cys Ala Cys Val
145 150 155 160

Tyr Leu Val Cys Pro Cys Ile Gly Gly Val Cys Thr Leu Leu Val Tyr
165 170 175

Val Trp Gly Ser Thr Cys Ser Leu
180

<210> 204
<211> 55
<212> PRT
<213> Homo sapiens

<400> 204
Ala Ser Leu Ile Phe Ser Ser Pro Leu Ser Pro Leu Leu Thr Ser Pro
1 5 10 15

Ser Ser Ser Ile Cys Ser Val Arg Pro Leu Gly Ile Val Met Ile Thr
20 25 30

Cys Phe His Ser Arg Cys His Leu Lys Gln Arg Pro Ala Ser Pro Asn
35 40 45

Gly Val Phe Gln Gln Arg Ala
50 55

<210> 205
<211> 43
<212> PRT
<213> Homo sapiens

<400> 205
Ala His Leu Ser Pro Thr Ala Ala Leu His Val Ala Gln Gly Glu Ser
1 5 10 15

Leu Ser Thr Asp Val Glu Cys Arg Val Pro Gly Leu Met Leu Thr Leu
20 25 30

Leu Leu Ala Val His Gln Gln Ile Leu Val Gly
35 40

<210> 206
<211> 42
<212> PRT
<213> Homo sapiens

<400> 206

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Leu Pro Val Gln Val Gly Trp Ser Leu Cys Asn Thr Asp Gly Pro Lys
1 5 10 15

Leu Leu Cys Gly Arg Gln Gly Leu Met Leu Leu Thr Gly His His Cys
20 25 30

Gln Ala Ser Lys His Lys Ser Gln Gly Leu
35 40

<210> 207

<211> 140

<212> PRT

<213> Homo sapiens

<400> 207

Ala Ser Leu Ile Phe Ser Ser Pro Leu Ser Pro Leu Leu Thr Ser Pro
1 5 10 15

Ser Ser Ser Ile Cys Ser Val Arg Pro Leu Gly Ile Val Met Ile Thr
20 25 30

Cys Phe His Ser Arg Cys His Leu Lys Gln Arg Pro Ala Ser Pro Asn
35 40 45

Gly Val Phe Gln Gln Arg Ala Ala His Leu Ser Pro Thr Ala Ala Leu
50 55 60

His Val Ala Gln Gly Glu Ser Leu Ser Thr Asp Val Glu Cys Arg Val
65 70 75 80

Pro Gly Leu Met Leu Thr Leu Leu Leu Ala Val His Gln Gln Ile Leu
85 90 95

Val Gly Leu Pro Val Gln Val Gly Trp Ser Leu Cys Asn Thr Asp Gly
100 105 110

Pro Lys Leu Leu Cys Gly Arg Gln Gly Leu Met Leu Leu Thr Gly His
115 120 125

His Cys Gln Ala Ser Lys His Lys Ser Gln Gly Leu
130 135 140

<210> 208

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 208

Val Glu Ala Glu Trp Leu Gln Asp Val Gly Leu Ser Thr Leu Ile Ser

09895298.070201


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<400> 210
Lys Lys Asp Lys Gln Ser Ile Arg Asp Val Arg Asp Ile Phe Gly Val
  1                      5                      10                     15
Ser Glu Ser Pro Pro Arg Asp Thr Cys Gly Asn His Thr Asn Gln Leu
      20                      25                     30
Asp Gly Thr Lys Glu Glu Arg Glu Leu Pro Arg Val Ile Lys Thr Ser
    35                      40                     45
Gly Ser Met Pro Asp Asp
    50

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<210> 211
<211> 52
<212> PRT
<213> Homo sapiens

<400> 211
Ala Ser Leu Asn Ser Thr Thr Leu Ser Asp Ala Ser Gln Asp Lys Glu
  1                      5                      10                      15
Gly Ser Phe Ala Val Pro Arg Ser Asp Ser Val Ala Ile Leu Glu Thr
          20                      25                      30
Ile Pro Val Leu Pro Val His Ser Asn Gly Ser Pro Glu Pro Gly Gln
      35                      40                      45
Pro Val Gln Asn
      50

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<210> 212
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 212
Ala Ile Ser Asp Asp Asp Phe Leu Glu Lys Asn Ile Xaa Pro Glu Ala
  1             5             10             15

Glu Glu Leu Ser Phe Glu Val Ser Tyr Ser Glu Met Val Thr Glu Ala
      20             25             30

Leu Lys Arg Asn Lys Leu Lys Lys Ser Glu Ile Lys Lys Glu Asp Tyr

```

35

40

45

Val Leu Thr Lys Phe Asn Xaa Gln Lys Thr Arg Phe Gly Leu Thr
 50 55 60

<210> 213
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 213
 Leu Ala Gln Thr Val Thr Asp Met Pro Leu Thr Gly Thr Asn His Asp
 1 5 10 15

Arg Gln Gly His Leu Leu Arg Ser Gly Thr Thr Tyr Tyr Leu Leu Ala
 20 25 30

<210> 214
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 214
 Leu Ser Phe Leu Glu Leu Asp Ser Glu Cys Ser
 1 5 10

<210> 215
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 215
 Trp Trp Ser Leu Glu Thr Arg Met Arg Thr Ala Arg Val Pro Met Arg
 1 5 10 15

Pro Ser Trp Thr Arg Thr Pro Ser Phe Ala Arg Ala Leu Lys Phe Ser
 20 25 30

Thr Gln Ser Trp Gly Thr Leu Ala Ala Arg Leu Phe Leu Ile Val Thr
 35 40 45

Thr Thr Asp Arg Arg Ser Pro Pro Gly Trp Lys Pro Ile Val Lys Phe
 50 55 60

Pro Gly Ala Val Asp Gly Ala Thr Tyr Asn Pro Gly Asp Gly Gly Ser
 65 70 75 80

Arg Cys Pro

<210> 216
 <211> 20
 <212> PRT
 <213> Homo sapiens

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<400> 216

Met Arg Thr Ala Arg Val Pro Met Arg Pro Ser Trp Thr Arg Thr Pro
 1 5 10 15

Ser Phe Ala Arg
 20

<210> 217

<211> 21

<212> PRT

<213> Homo sapiens

<400> 217

Pro Gly Trp Lys Pro Ile Val Lys Phe Pro Gly Ala Val Asp Gly Ala
 1 5 10 15

Thr Tyr Asn Pro Gly
 20

<210> 218

<211> 149

<212> PRT

<213> Homo sapiens

<400> 218

Ser Ser Ser Arg Gly Pro Trp Thr Ala Gln Pro Ile Ile Leu Val Met
 1 5 10 15

Val Asp Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp
 20 25 30

Arg His Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Lys Gly
 35 40 45

Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro
 50 55 60

Ala His Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu
 65 70 75 80

Gly Lys Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser
 85 90 95

Trp Lys Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu
 100 105 110

Ala Ser Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu
 115 120 125

Gln Ala Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala
 130 135 140

Glu Ile Ala Ala Cys
 145

<210> 219

<211> 24

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<212> PRT

<213> Homo sapiens

<400> 219

Pro Ile Ile Leu Val Met Val Asp Pro Asp Ala Pro Ser Arg Ala Glu
 1 5 10 15

Pro Arg Gln Arg Phe Trp Arg His
 20

<210> 220

<211> 23

<212> PRT

<213> Homo sapiens

<400> 220

Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro
 1 5 10 15

Ala His Ser Gly Phe His Arg
 20

<210> 221

<211> 20

<212> PRT

<213> Homo sapiens

<400> 221

Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys Met
 1 5 10 15

Asp Arg Phe Leu
 20

<210> 222

<211> 17

<212> PRT

<213> Homo sapiens

<400> 222

Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His Ser Gly
 1 5 10 15

Phe

<210> 223

<211> 8

<212> PRT

<213> Homo sapiens

<400> 223

Pro Glu Val Pro Met Gly Trp Thr
 1 5

<210> 224

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<211> 86
 <212> PRT
 <213> Homo sapiens

<400> 224
 Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu Met Met Val Val
 1 5 10 15
 Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His Glu Ala Leu Leu
 20 25 30
 Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val Phe Tyr Pro Glu
 35 40 45
 Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys Asn Asn Tyr Arg
 50 55 60
 Gln Lys Ile Thr Ser Trp Met Glu Ala Asp Ser Gln Val Pro Gly Gly
 65 70 75 80
 Arg Gly Arg Arg Asn Leu
 85

<210> 225
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 225
 Pro Ile Leu Trp Gly Asn Arg Val Pro Met Glu Pro Gln Lys Cys His
 1 5 10 15
 Pro Ala Gly Trp His Gly Leu Gly Gln Glu Ala Glu Ala Gly Asp Gln
 20 25 30
 Asp Gly Arg Trp Arg Pro Gly Leu Pro Gln Arg Lys Arg Pro Pro Ala
 35 40 45
 Gly Ala Gly Gln Ala Trp Leu Ser Cys His Arg His Met Val Glu Arg
 50 55 60
 Gly Val Pro Cys Pro Pro Trp Gly Gly Gly Thr Arg Ala Leu Val Tyr
 65 70 75 80
 Ser Asp Ala Gly

<210> 226
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 226
 Pro Met Glu Pro Gln Lys Cys His Pro Ala Gly Trp His Gly Leu Gly
 1 5 10 15
 Gln Glu Ala Glu Ala Gly Asp Gln Asp Gly
 20 25

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<400> 229
Trp Gly Leu Gly Gly Gly Leu Pro Arg Gly His Pro Pro Leu Leu Gly
1 5 10 15

Trp Gly Leu Gly
20